

## Session II

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David Rogers is a Hydraulic Engineer and president of Rogers Engineering Hydraulics, Inc. Prior to forming his own company, Mr. Rogers worked for 25 years with the Bureau of Reclamation as a technical specialist in the analysis, design, operation, and automation of water conveyance systems. His work has included unsteady flow analysis of hydraulic systems; analysis and design of automatic control systems for canals, pipelines, and pumping plants; and development of hydraulic transient analysis computer programs and automatic control software. He has worked extensively with the operation, control, and modernization of irrigation water delivery systems throughout the United States and abroad, including work in Egypt, Brazil, Spain, France, Morocco, India, Mexico, Greece, and Pakistan. Mr. Rogers has authored numerous technical papers and articles, and is an author of Reclamation's *Canal Systems Automation Manual*.

### Abstract of presentation:

As the first segment of this panel discussion, this presentation will discuss modernization opportunities and benefits, and how they apply to most existing irrigation water delivery systems. The presentation will address what "modernization" means, reasons to undertake a modernization effort, and how typical irrigation districts should go about the process of modernizing. Without getting too technical, the various features, instrumentation, and components of data collection and control systems will be introduced. Finally, some of the myths and tradeoffs of these modern technologies will be discussed.